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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/330,852	06/11/1999	DAVID L. REESE	005231/07-4014	9904

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DAVID E. BOUNCY
SCHULTE ROTH & ZABEL
919 THIRD AVENUE
NEW YORK, NY 10022

EXAMINER

CHAVIS, JOHN Q

ART UNIT	PAPER NUMBER
2124	11

DATE MAILED: 04/21/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/330,852

Applicant(s)

REESE ET AL.

Examiner

John Chavis

Art Unit

2124

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 11 June 1999.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-51 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-51 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 03 November 2000 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☒ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 2-4 and 6.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Information Disclosure Statement

1. The information disclosure statement filed 12-17-99 (paper #2), 11-3-00 (paper #3), 5-9-03 (paper #4) and 4-24-03 (paper #6), fails to comply with 37 CFR 1.98(a)(3) because it does not include a concise explanation of the relevance, as it is presently understood by the individual designated in 37 CFR 1.56(c) most knowledgeable about the content of the information, of each patent listed that is not in the English language. It has been placed in the application file, but the information referred to therein has not been considered. Furthermore, the references listed in paper #2 appear to be repeated in paper #5 and therefore, paper #2 is considered merely a duplicate for which no response is provided.

Double Patenting Rejection

2. Claim(s) 1-30 of patent # 09/425,401 contain(s) every element of claim(s) 1-51 of the instant application and as such anticipate(s) claim(s) 1-51 of the instant application.

"A later patent claim is not patentably distinct from an earlier patent claim if the later claim is obvious over, or **anticipated by**, the earlier claim. In re Longi, 759 F.2d at 896, 225 USPQ at 651 (affirming a holding of obviousness-type double patenting because the claims at issue were obvious over claims in four prior art patents); In re Berg, 140 F.3d at 1437, 46 USPQ2d at 1233 (Fed. Cir. 1998) (affirming a holding of obviousness-type double patenting where a patent application claim to a genus is anticipated by a

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patent claim to a species within that genus). “ ELI LILLY AND COMPANY v BARR LABORATORIES, INC., United States Court of Appeals for the Federal Circuit, ON PETITION FOR REHEARING EN BANC (DECIDED: May 30, 2001).

However, since both applications are still pending, Claims 1-51 of this application conflict with claims 1-30 of Application No. 09/425,401. 37 CFR 1.78(b) provides that when two or more applications filed by the same applicant contain conflicting claims, elimination of such claims from all but one application may be required in the absence of good and sufficient reason for their retention during pendency in more than one application. Applicant is required to either cancel the conflicting claims from all but one application or maintain a clear line of demarcation between the applications. See MPEP § 822.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000.

Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

4. Claims 1-3, 5, 7-36, 38-44, and 46-51 are rejected under 35 U.S.C. 102(e) as being anticipated by Heisch (6,006,033).

CLAIMS

Heisch

1. A method, comprising:
executing a program on a computer,

See the title and the abstract.
See col. 2 lines 14-25

**without the program having been
program having been compiled for profiled
execution**, the program being coded in an
instruction set in which an interpretation of an
instruction depends on a processor mode
not expressed in the binary representation
of the instruction, ...profile information
describing a sequence of events occurring in
an instruction pipeline;

See col. 2 line 65-col. 3 line 3,
which optimizes based on
actual behavior (i.e. not having
been compiled for profiled
execution. Therefore, the feature
depends on the processor mode,
or information not known at
compile time, col. 5 lines 13-28
Instruction pipelines are utilized
in modern processors to keep
the system from remaining idle
while a single function executes,
see any computer dictionary.
Heisch is considered to inherently
provide for the feature for that same
reason, see figs. 2, 4 and 5.
See fig. 1.

during a profile quiescent interval...

after a triggering event...

See col. 12 lines 29-54.

a divergence of execution from
sequential execution;

See col. 2 lines 51-59.

a processor mode change that is not
inferable from the opcode of the instruction
that induces the processor mode change
taken together with a processor mode
before the mode change instruction...;

See col. 2 lines 38-59.

the recorded profile information being

See col. 4 lines 14-21, which

effectively tailored to annotate...
during the execution interval.

indicates that different parts of executed
he program can be exercised in
different sequences or amounts (which
inherently includes pages).

As per claims 2, 3, 5, 7-11, 16-19, 21-26, 28-30, 32-36, 39-44, and 46-51, see
the rejection of claim 1.

The features of claims 12-15 are taught via col. 12 lines 29-64 and fig. 1.

In reference to claims 20 and 27, 38, see the abstract "independent of procedure
of other structural boundaries.

Claim 31 is taught via col. 12 lines 29-64.

The invention taught by Magnusson et al. (IEEE reference) is also considered
pertinent to the applicant's disclosure; since, it also provides for implementation via
multiple cpu's (hardware resources) based on their availability in the system, see page
69, which is based on the binary, see the introduction, and utilizes TLB's (page 64) for
page simulation (page 66).

Furthermore, Argrawal (5,768,500) specifically references specialized hardware
for profiling in col. 8.

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all
obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 4, 6 37 and 45 are rejected under 35 USC 103 as obvious over Heisch in view of Roediger (5,960,198). Heisch does not specifically indicate that a timer is used in his system; however, the feature is taught by Roediger in an analogous art, col. 4 lines 7-13, to enable control over when data is collected, col. 1 lines 49-64 based on a bit, col. 3 lines 3-15, via multiple cpu's (col. 5 lines 42-46) executing simultaneously in parallel (col. 8 lines 14-29) and initiated via hardware (col. 6 lines 61-col. 7 line 8, col. 8 lines 21-29). Therefore, it would have been obvious to a person of ordinary skill in the art at the time of the invention to modify Heisch's invention with the teachings of Roediger for the same reasons utilized by Y to enable control over when data is collected to improve performance in specific areas.

Furthermore, the feature of determining how pages are offset is considered a choice of design; since, the number of the page assigned does not affect the process of profiling. Therefore, it would have been obvious to a person of ordinary skill in the art at the time of the invention to utilize the feature in Heisch's system; since, some type of numbering is required for pages and it would have been obvious to a person of ordinary skill in the related art at the time of the invention that various selections are available and selectable to enable access to specific pages.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to John Chavis whose telephone number is (703) 305-9665. The examiner can normally be reached on 8:30 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kakali Chaki can be reached on (703) 305-9662. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Jqc
April 15, 2004



JOHN CHAVIS
PATENT EXAMINER
ART UNIT 2124